

AMENDMENTS TO THE CLAIMS

Applicant submits below a complete listing of the current claims, including marked-up claims with insertions indicated by underlining and deletions indicated by strikeouts and/or double bracketing. This listing of claims replaces all prior versions, and listings, of claims in the application:

Listing of the Claims

1. (Currently amended) A method for transferring control between a first network interface controller and at least a second network interface controller in a multiple network interface device, the method comprising:

after the first network interface controller sends an identifier, ~~the identifier~~ associated with a memory location in the multiple network interface device [[,]] to a second device and [[,]] the identifier and an associated data field ~~capable of being~~ are received by the second network interface controller in the multiple network interface device from the second device, the method comprising: receiving a message from the second network interface controller in the multiple network interface device by a program component of the multiple network interface device, the message indicating the reception of the identifier associated with the memory location in the multiple network interface device and the associated data field from the second device, wherein the second network interface controller has no knowledge of the identifier and the associated data field, and wherein the first network interface controller and the second network interface controller operate under a remote direct memory access (RDMA) protocol;

passing the identifier to the program component;

querying the first network interface controller to supply the program component with a list of identifiers generated by the first network interface controller and associated memory locations in multiple network interface device memory;

identifying, by the program component, that the first network interface controller generated the identifier; and

transmitting ~~[[a]]~~ the memory location associated with the identifier to the second network interface controller, wherein the second network interface controller transmits ~~capable of transmitting~~ the associated data field to the memory location ~~associated with the identifier~~.

2. (Original) The method of claim 1 wherein the identifier is invalidated under control of a bit field added to the identifier and the associated data field received from the second device.

3. (Original) The method of claim 2 wherein if the identifier has been invalidated, the associated data field is discarded.

4. (Original) The method of claim 1 wherein the memory location is random access memory.

5. (Original) The method of claim 1 wherein the program component is a computer operating system.

6. (Canceled)

7. (Currently amended) The method of claim 1 wherein the first network interface controller and the second network interface controller operate under ~~a remote direct memory access (RDMA) protocol~~ the RDMA over TCP/IP protocol.

8. (Currently amended) A method for transferring control between a first network interface controller and at least a second network interface controller in a host computer including the first network interface controller and the second network interface controller, the method comprising:

receiving an identifier from a remote computer by the at least a second network interface controller, the identifier generated by the first network interface controller and associated with a memory location in the host computer, wherein the second network interface controller has no

knowledge of the identifier and the associated data field, and wherein the first network interface controller and the second network interface controller operate under a remote direct memory access (RDMA) protocol;

sending a message to a program component indicating the reception of the identifier, the program component ~~configured to query~~ queries the first network interface controller for a list of identifiers generated by the first network interface controller and associated memory locations in the host computer;

passing the identifier received from the remote computer to the program component;

searching the list of identifiers for the identifier;

[[if]] when the list of identifiers includes the identifier received from the remote computer, receiving a memory location associated with the identifier; and

[[if]] when the list of identifiers does not include the identifier received from the remote computer, invalidating the identifier received from the remote computer.

9. (Original) The method of claim 8 wherein the identifier is invalidated under control of a bit field added to the identifier and an associated data field received from the remote computer.

10. (Original) The method of claim 9 wherein if the identifier has been invalidated, the associated data field is discarded.

11. (Original) The method of claim 8 wherein the memory location is random access memory.

12. (Original) The method of claim 8 wherein the program component is a computer operating system.

13. (Canceled)

14. (Currently amended) The method of claim 8 wherein the first network interface controller and the second network interface controller operate under a remote direct memory access (RDMA) protocol over TCP/IP protocol.

15. (Currently amended) A computer readable medium having stored therein instructions for performing acts for transferring control between a first network interface controller and at least a second network interface controller in a multiple network interface device, the acts comprising:

after the first network interface controller sends an identifier, ~~the identifier~~ associated with a memory location in the multiple network interface device to a second device[[,]] and the identifier and an associated data field ~~capable of being~~ are received by the second network interface controller in the multiple network interface device; ~~the acts comprising:~~ receiving a message from the second network interface controller by a program component in the multiple network interface device, the message indicating the reception of the identifier associated with the memory location in the multiple network interface device and the associated data field from the second device, wherein the second network interface controller has no knowledge of the identifier and the associated data field, and wherein the first network interface controller and the second network interface controller operate under a remote direct memory access (RDMA) protocol;

passing the identifier to the program component;

querying the first network interface controller to supply the program component with a list of identifiers generated by the first network interface controller and associated memory locations in multiple network interface device memory;

identifying, by the program component, that the first network interface controller generated the identifier; and

transmitting [[a]] the memory location associated with the identifier to the second network interface controller, wherein the second network interface controller transmits ~~capable of transmitting~~ the associated data field to the memory location ~~associated with the identifier~~.

16. (Original) The computer readable medium of claim 15 wherein the identifier is invalidated under control of a bit field added to the identifier and the associated data field received from the second device.

17. (Original) The computer readable medium of claim 16 wherein if the identifier has been invalidated, the associated data field is discarded.

18. (Original) The computer readable medium of claim 15 wherein the memory location is random access memory.

19. (Original) The computer readable medium of claim 15 wherein the program component is a computer operating system.

20. (Canceled)

21. (Currently amended) The computer readable medium of claim 15 wherein the first network interface controller and the second network interface controller operate under a ~~remote direct memory access (RDMA)~~ the RDMA protocol over TCP/IP protocol.

22. (Currently amended) A computer readable medium having stored therein instructions for performing acts for transferring control between a first network interface controller and at least a second network interface controller in a host computer including the first network interface controller and the second network interface controller, the method comprising:

receiving an identifier from a remote computer by the at least a second network interface controller, the identifier generated by the first network interface controller and associated with a memory location in the host computer, wherein the second network interface controller has no knowledge of the identifier and the associated data field, and wherein the first network interface controller and the second network interface controller operate under a remote direct memory access (RDMA) protocol;

sending a message to a program component indicating the reception of the identifier, the program component ~~configured to query~~ queries the first network interface controller for a list of identifiers generated by the first network interface controller and associated memory locations in the host computer;

passing the identifier received from the remote computer to the program component;
searching the list of identifiers for the identifier;

[[if]] when the list of identifiers includes the identifier received from the remote computer, receiving a memory location associated with the identifier; and

[[if]] when the list of identifiers does not include the identifier received from the remote computer, invalidating the identifier received from the remote computer.

23. (Original) The computer readable medium of claim 22 wherein the identifier is invalidated under control of a bit field added to the identifier and the associated data field received from the second device.

24. (Original) The computer readable medium of claim 23 wherein if the identifier has been invalidated, the associated data field is discarded.

25. (Original) The computer readable medium of claim 22 wherein the memory location is random access memory.

26. (Original) The computer readable medium of claim 22 wherein the program component is a computer operating system.

27. (Canceled)

28. (Currently amended) The computer readable medium of claim 22 wherein the first network interface controller and the second network interface controller operate under ~~a remote direct memory access (RDMA)~~ the RDMA protocol over TCP/IP protocol.